U.S. SERIAL NO. 08/965,356 FILED NOVEMBER 6, 1997 AMENDMENT

binds to the melanocortin 4 receptor].

- 3. (amended) The animal of claim 2 wherein the molecule is [a] syndecan -1.
- 4. (amended) The animal of claim 2 wherein the [molecule] <u>syndecan</u> is expressed preferentially in the <u>areas of the</u> hypothalamus <u>responsible for the regulation of body weight and</u> energy balance.
- 7. (amended) A genetically engineered construct for making a transgenic animal comprising a promoter and a nucleic acid molecule encoding a syndecan, wherein the syndecan is preferentially expressed in the regions of the hypothalamus responsible for the regulation of body weight and energy balance.
- 10. (amended) A method for screening for compounds which can alter body weight comprising

administering a compound to a non-human transgenic animal genetically engineered to express a syndecan or proteoglycan portions thereof [having binding to the melanocortin 4 receptor function inactivated], wherein the animal is characterized by an obese phenotype., and observing whether there is a change in body weight over a period of time.

- 11. (amended) The method of claim 10 wherein the animal expresses a [molecule] syndecan from a genetically engineered construct stably integrated into its genome [wherein the molecule binds to the melanocortin 4 receptor].
- 12. (amended) The method of claim 10 wherein the [molecule] syndecan is [a] syndecan 1.
- 13. (amended) The method of claim 11 wherein the [molecule] syndecan is expressed

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